bio-techne
TOCRIS

Print Date: Mar 14th 2024

Certificate of Analysis

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Product Name: dBRD9 **Catalog No.: 6606** **Batch No.: 2**

CAS Number: 2341840-98-8

IUPAC Name: 2-[[[4-(1,2-Dihydro-2-methyl-1-oxo-2,7-naphthyridin-4-yl)-2-6-dimethoxyphenyl]methyl]methylamino]-*N*-[2-[2-[2-[[2-(2,6-dioxo-3-piperidinyl)-2,3-dihydro-1,3-dioxo-1*H*-isoindol-4-yl]amino]ethoxy]ethoxy]ethyl]acetamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{40}H_{45}N_7O_{10}.2HCl.2¼H_2O$

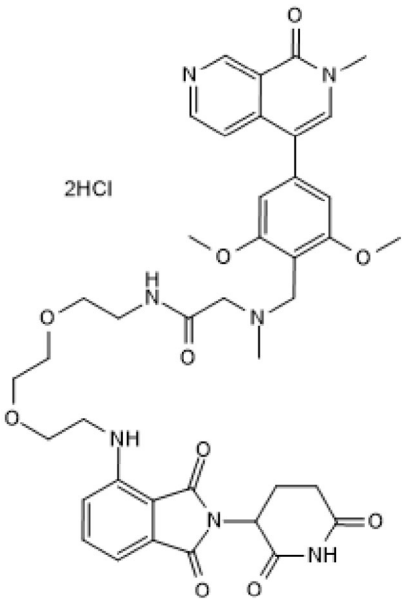
Batch Molecular Weight: 897.28

Physical Appearance: Yellow solid

Solubility: water to 20 mM
DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	53.54	5.79	10.93	7.9
Found	53.17	5.9	10.82	7.72

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Description:

dBRD9 is a potent and selective Degrader (PROTAC®) of BRD9 (IC_{50} = 56.6 nM in MOLM-13 cells). dBRD9 is composed of the BRD9 inhibitor BI 7273 conjugated to the cereblon E3 ligase ligand pomalidomide (Cat. No. 6302). Does not degrade BRD4 or BRD7 at concentrations up to 5 µM. Displays antiproliferative effects in human AML cell lines. BRD9 antibody validated for Simple Western™ (automated Western) instruments and Western Blot also available: Catalog # NBP3-14730. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

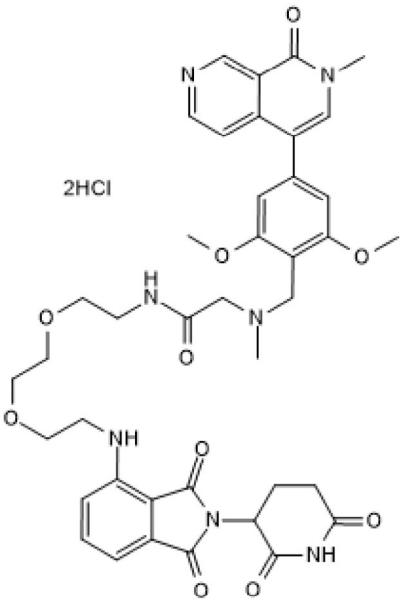
Batch Molecular Formula: $C_{40}H_{45}N_7O_{10}.2HCl.2¼H_2O$

Batch Molecular Weight: 897.28

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM
DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold under license from Dana-Farber Cancer Institute.

References:

Remillard *et al* (2017) Degradation of the BAF complex factor BRD9 by heterobifunctional ligands. Angew.Chem.Int.Ed.Engl. ***56*** 5738. PMID: 28418626.